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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/032,103	12/31/2001	Byung-kyu Lee	030681-351	5887	
21839 75	90 01/12/2004		EXAMINER		
BURNS DOANE SWECKER & MATHIS L L P POST OFFICE BOX 1404			RICKMAN, HOLLY C		
	A, VA 22313-1404		ART UNIT	PAPER NUMBER	
	•		1773	,	
			DATE MAILED, 01/10/000	DATE MAILED: 01/12/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

No. 1 to Give	Application No.	Applicant(s)	·
Advisory Action	10/032,103	LEE, BYUNG-KYU	
•	Examiner	Art Unit	
	Holly Rickman	1773	
The MAILING DATE of this communication appe	ars on the cover sheet with the c	orrespondence add	ress
THE REPLY FILED 08 December 2003 FAILS TO PLAC Therefore, further action by the applicant is required to av final rejection under 37 CFR 1.113 may only be either: (1) condition for allowance; (2) a timely filed Notice of Appeal Examination (RCE) in compliance with 37 CFR 1.114.	oid abandonment of this applica a timely filed amendment which	ition. A proper reply places the applica	y to a tion in
PERIOD FOR RE	PLY [check either a) or b)]		
a) The period for reply expires 3 months from the mailing date b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire is ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS 706.07(f).  Extensions of time may be obtained under 37 CFR 1.136(a). The fee have been filed is the date for purposes of determining the period of fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of 1 (2) as set forth in (b) above, if checked. Any reply received by the Offic timely filed, may reduce any earned patent term adjustment. See 37 C	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing FILED WITHIN TWO MONTHS OF THE date on which the petition under 37 CFI f extension and the corresponding amount shortened statutory period for reply the later than three months after the mail	g date of the final rejection.  RE FINAL REJECTION.  R 1.136(a) and the apprount of the fee. The appropriginally set in the final	on. See MPEP  opriate extension opriate extension Office action; or
1. A Notice of Appeal was filed on Appellant's 37 CFR 1.192(a), or any extension thereof (37 CFF			
2. The proposed amendment(s) will not be entered be	ecause:		
(a) 🔲 they raise new issues that would require further	er consideration and/or search (s	see NOTE below);	
(b) They raise the issue of new matter (see Note b	elow);		
<ul><li>(c)  they are not deemed to place the application ir issues for appeal; and/or</li></ul>	better form for appeal by mater	rially reducing or sir	nplifying the
<ul><li>(d) they present additional claims without canceling</li><li>NOTE:</li></ul>	ng a corresponding number of fi	nally rejected claim	S.
3.⊠ Applicant's reply has overcome the following reject	ion(s): See Continuation Sheet.		
4. Newly proposed or amended claim(s) would canceling the non-allowable claim(s).	be allowable if submitted in a se	parate, timely filed	amendment
5.⊠ The a) affidavit, b) exhibit, or c) request for application in condition for allowance because: See	reconsideration has been consideration Sheet.	dered but does NO	Γ place the
6. The affidavit or exhibit will NOT be considered becaraised by the Examiner in the final rejection.	ause it is not directed SOLELY to	o issues which were	e newly
7. For purposes of Appeal, the proposed amendment explanation of how the new or amended claims we			ind an
The status of the claim(s) is (or will be) as follows:			
Claim(s) allowed: none.			
Claim(s) objected to: 9,15 and 19.			
Claim(s) rejected: <u>1-8,10-14,16-18,20 and 21</u> .			
Claim(s) withdrawn from consideration: none.			
8. The drawing correction filed on is a) appr	oved or b)□ disapproved by th	ne Examiner.	
9. Note the attached Information Disclosure Statemen	t(s)( PTO-1449) Paper No(s)	•	
10. Other:			
		Holly Rickman Primary Examiner Art Unit: 1773	

U.S. Patent and Trademark Office PTOL-303 (Rev. 11-03) Continuation of 3. Applicant's reply has overcome the following rejection(s): the rejection of claims 1-4,6-7,9,12-13,15,17, and 19 under 35 USC 102(e) or under 35 USC 103(a) as being anticipated by or unpatentable over Ikeda et al (US 6468670).

Continuation of 5. does NOT place the application in condition for allowance because: Applicant's arguments with respect to the function of the Ti layer taught by Lambeth et al. are not persuasive. Applicant argues that the Ag layer underlying the Ti layer serves to enhance epitaxial growth of the Ti layer and as a result, the perpendicular magnetic recording layer as well. However, Applicant's attention is directed to col. 21 lines 4-40. The particular portion cited by Applicant's seems to suggest, when read on its own, that the Ti layer is epitaxially grown on the Ag layer. However, the rest of the section in col. 21 indicated otherwise. Specifically, lines 4-17 state that Ti acts as a wetting layer "that elimiates the influence of the orientation of the substrate or previously deposited layer under the Co-based layer." Thus, it is clear that the Ti layer is, in fact, a crystal growth discontinuation layer.

HOLLY RICKMAN BOMARY EXAMINER